



## MEMORANDUM

**To:** Traffic Study Files

**From:** Lee Austin, P.E.  
Area Engineer  
Austin Transportation Department

**Date:** August 19<sup>th</sup>, 2019

**Subject:** Speed Limit Modification Report

**Location:** Cameron Road – 485 feet north of U.S. 290 to Park Center Drive



A speed zone investigation has been conducted by the Austin Transportation Department to determine an appropriate speed limit on Cameron Road between 485 feet north of U.S. 290 to Park Center Drive (the study segment). Figure 1 at the end of this document presents a map of the study area with existing and proposed speed limits along the study segment.

### Location Conditions

Cameron Road is a six-lane major arterial with a center median that runs in a general north/south direction for a length of approximately 1.35 miles along the study segment. The segment south of the study segment is posted at 35 mph from Cloverleaf Drive to 485 feet north of U.S. 290. North of the study segment at Park Center Drive the speed limit is posted at 45 mph. A school zone that lowers the speed limit when flashing to 25 mph runs from Athletic Drive to East St. Johns Avenue. There are six signalized intersections in the study segment at Camino La Costa, East St Johns Avenue, Coronado Hills Drive/Mckie Drive, both the eastbound and westbound segments of East Anderson Lane that serve as the frontage road for U.S. 183, and Rutherford Lane. In addition, there is a marked but uncontrolled crosswalk at Westheimer Drive.

The study segment of Cameron Drive is approximately 80 feet from curb face to curb face and has 33 foot travel ways in each direction and a 14 foot median. The median varies between solid concrete and grassy with trees and there are 12 median breaks that vary in spacing between 230 to 600 feet. Fifteen city streets and 46 driveways intersect this of Cameron Road; four of the driveways are residential, six are for multi-family housing, and the remaining 36 are commercial driveways.

There is sidewalk along both side of the study segment although much of it is immediately behind the curb and there are no bicycle facilities. On the east side of the south end of the study segment is AISD's Northeast Early College High School and on the west side of the north end is the newly opened KIPP Austin College Prep school. Beside the schools, the adjacent land use is a mix of residential, both single family and multi-family, and commercial which is mostly small shopping centers and restaurants. North of U.S. 183, the commercial is mainly large office complexes.

### Traffic Data

Speed and volume data were collected in May 2015 to determine the appropriate posted speed limit for the study segment.

Date	Block Number	Location	Posted Speed Limit	85 <sup>th</sup> Percentile Speed		Sample Size*
				NB	SB	
1/16/2019	7000	North of Westheimer Drive	40**	54.4	45.3	18,372
1/8/2019	7300	North of Reagan Hill Drive	40	40.1	41.0	5,696
1/17/2019	7500	North of Coronado Hills Drive	40	42.3	40.2	20,577
12/12/2018 & 12/4/2018	7900	North of U.S. 183	40	39.1	43.5	16,212

\*Note: The method used disregarded vehicles within four seconds of each other to reduce the effects of congestion and obtain a theoretical free flow condition so the sample size does not reflect the actual Average Daily Traffic at these location. From the Texas Department of Transportation's saturation counts in 2015, the ADT on Cameron Road is 21,102 north of East St. Johns Avenue and 24,581 south of U.S. 183.

\*\*Note: It was discovered during this investigation that the speed limit sign was missing for northbound Cameron Road at 485 feet north of U.S. 290 which possibly influenced the 85 percentile speed.

### Crash Data

Austin Police Department's crash database was reviewed to analyze documented crashes along the study segment within the past eighteen months. Fifty-three crashes were documented during this period and a full list of the fifty three crashes is available in Appendix 1. Of the 53 crashes 22 were left turn crashes, 10 were red light running, 10 were rear end crashes, 7 were unsafe lane changes, and 2 involved pedestrians.

### Recommendation

This ordinance change is part of ATD's initial group of speed modification reports to evaluate operating speeds and safety on the City's primary arterial streets to recommend appropriate speed limits based on factors affecting roadway safety. This effort is included in ATD's Vision Zero initiative and its emerging Speed Management Program.

Based on my analysis of the location information and traffic data, the speed limit on Cameron Road between 485 feet north of U.S. 290 to Park Center Drive (approximately 1.35 miles) should be established at 35 mph. Factors contributing to this decision are:

- High number of crashes which while not directly attributable to speed will be reduced at a lower speed.
- Urban context and the many driveway and street connections.
- The adjacency of two large schools: AISD's Northeast Early College High School and KIPP Austin College Prep school.





**Figure 1: Cameron Road Study Area**

Existing 40 MPH — Existing 35 MPH —  
Existing 45 MPH — Proposed 35 MPH —

**Appendix 1: Crash Data**

Date / Time	Direction		Weather	Light	Road	Injury	Comments
	At Fault	Other					
01/17/16 8:05 AM	NB	EB	Clear	Day	Dry	None	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
02/10/16 17:07 PM	SB	SB	Cloudy	Day	Dry	None	Vehicle 1 drove into 2 vehicles. Alcohol involved
02/12/16 19:17 PM	WB	NB	Cloudy	Day	Dry	None	Vehicle 1 made a left turn in front of oncoming vehicle 2
04/04/16 07:44 AM	WB	NB	Clear	Day	Dry	Minor	Vehicle 1 driving on the wrong side of the road, struck oncoming vehicle 2
04/28/16 07:55 AM	NB	EB	Cloudy	Day	Dry	Minor	Vehicle 1 made a right turn in front of oncoming Vehicle 2
06/08/16 14:36 PM	NB	NB	Cloudy	Day	Dry	Minor	Vehicle 1 made an unsafe lane change and struck Vehicle 2
08/18/16 06:31 AM	WB	SB	Cloudy	Day	Dry	Minor	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
11/01/16 11:47 AM	EB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
08/30/16 09:00 AM	EB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
09/30/16 01:27 PM	EB	—	Clear	Day	Dry	Minor	Vehicle 1 fell asleep and collided with a center barrier
11/01/16 16:41 PM	WB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn in front of oncoming vehicle 2
11/01/16 21:03 PM	SB	SB	Clear	Day	Dry	None	Vehicle 1 drove into 2 vehicles. Alcohol involved
11/21/16 12:24 PM	WB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn in front of oncoming vehicle 2
12/24/16 08:27 AM	WB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn in front of oncoming vehicle 2
12/26/16 08:51 AM	SB	WB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn in front of oncoming vehicle 2
01/30/17 14:25 PM	SB	NB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn in front of oncoming vehicle 2

03/20/17 16:19 PM	EB	EB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
05/09/17 07:46 AM	SB	SB	Clear	Day	Dry	Minor	Vehicle 1 & 2 fail to maintain safe driving distance and collided with the rear end of vehicle 3 & 4
05/21/17 19:10 PM	SB	WB	Clear	Day	Dry	Minor	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
09/27/17 07:59 AM	SB	SB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
01/19/18 07:18 AM	WB	NB	Clear	Day	Dry	Minor	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
03/29/18 15:10 PM	EB	SB	Clear	Day	Dry	Minor	Vehicle 1 fail to yield ROW & made a left turn in front of oncoming vehicle 2
04/03/18 06:57 AM	NB	NB	Clear	Day	Dry	None	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
04/23/18 12:37pm	NB	SB	Clear	Day	Dry	None	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
06/05/18 15:30 PM	NB	EB	Clear	Day	Dry	Minor	Vehicle 1 struck an individual Jaywalking
05/10/18 13:15 PM	NB	SB	Clear	Day	Dry	Minor	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
05/28/18 16:00 PM	SB	SB	Clear	DAY	Dry	Minor	Vehicle 1 made an unsafe lane change and struck Vehicle 2
06/04/18 01:15 Pm	WB	NB	Clear	Day	Dry	Minor	Vehicle 1 drove into 2 vehicles. Alcohol involved
06/16/18 15:30 PM	NB	WB	Clear	Day	Dry	Minor	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
06/19/18 14:49 PM	EB	NB	Clear	Day	Dry	Minor	Vehicle 1 struck an individual at the crosswalk
06/25/18 13:17 PM	SB	EB	Clear	Day	Dry	Minor	Vehicle 1 made an unsafe lane change and struck Vehicle 2
06/23/18 09:09 AM	SB	SB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
07/23/18 11:25 AM	EB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn in front of oncoming vehicle 2
08/10/18 16:08 PM	EB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
08/15/18 16:30 PM	EB	EB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2



08/30/18 17:37 PM	SB	SB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
09/12/18 14:49 PM	SB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
09/28/18 09:13 AM	WB	-	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
10/02/18 11:08 AM	EB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
10/22/18 20:30 PM	SB	NB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
10/28/18 19:10 PM	NB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
11/02/18 19:55 PM	-	-	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
11/14/18 09:48 AM	SB	SB	Clear	Day	Dry	Minor	Vehicle 1 made an unsafe lane change and struck Vehicle 2
11/14/18 18:46 PM	SB	SB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
12/28/18 09:37 AM	SB	NB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
01/05/19 16:13 PM	SB	EB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
01/26/19 19:47 PM	SB	NB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
02/16/19 20:40 PM	EB	SB	Clear	Day	Dry	Minor	Vehicle 1 made an unsafe lane change and struck Vehicle 2
02/18/19 17:00 PM	EB	EB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
03/14/19 16:45 PM	NB	WB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
04/09/19 14:08 PM	NB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
04/18/19 08:39 AM	NB	SB	Clear	Day	Dry	Minor	Vehicle 1 made a left turn on driveway but fail to yield ROW to oncoming traffic
05/04/19 20:16 PM	NB	SB	Clear	Day	Dry	Minor	Vehicle 1 made an unsafe lane change and struck Vehicle 2

05/20/19 07:00 AM	NB	SB	Clear	Day	Dry	Minor	Vehicle 1 collided with the rear end of vehicle 2
06/09/19 16:57 PM	NB	EB	Clear	Day	Dry	Minor	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
06/30/19 17:04 PM	NB	EB	Clear	Day	Dry	Minor	Vehicle 1 ran red light, struck Vehicle 2 in the driver's side
08/07/19	NB	NB	Clear	Day	Dry	Minor	Vehicle 1 made an unsafe lane change and struck Vehicle 2